NSLS-II Significant Environmental Aspects matrix														Reviewed and Approved - Steven Hoey - 08Dec2008					
		Environmental Aspects											Historical Monuments / Cultural Resources Env. Noise Historical Confamination Sol Activation						
ACTIVITY DESCRIPTION			Hazarde Industrial Wast	Radioactive Useste	Mixed Waste	Kegulated Medical Waste	Liquid Disc.	Chemical (C)	or Radinacii	Water Cons.	Power Con.	Historical	Sensitive/Enda	Sensitive Habital Res	Historica	Soit .	Solve to the solve		
Title	Number							С	R										
Vibrating Wire R&D	PSRF		а							Х	Х						Bld 902 annex		
Vacuum R&D	PSRF	а	а			а		f		Х	Х						Bld 905: Title V identified air emissions associated with the beam chamber ozone cleaning operation.		
RF R&D	PSRF							f			Х						Bld 902B		
Girder R&D	PSRF										Х						Bld 902 annex and 905		
Power Supplies R&D	PSRF									Х	Х						Bld 902 lab and high bay		
Beam Position Monitoring	PSRF										Х						Bld 902B		
Dipole Mapping	PSRF										Х						Bld 902 annex		
Corrector Magnet	PSRF										Х						Bld 902 high bay and annex		
Vertical Test Facility (VTF)	PSRF					Х					Х						Bld 902 high bay; chemical storage refers to use of LHe and LN2		
Administration								-		Х	Х								

Notes:

- 1. A blank cell indicates that the aspect is not present.
- 2. An x in a cell indicates that the aspect is present, but is not significant.
- 3. A letter other than x indicates that the aspect is significant.
 - (The letter refers to the specific criteria for the aspect which has been met.) See Key:

R&D Program

NSLS-II R&D programs are reviewed under Project Safety Review Forms (PSRF), which is the work planning document used to determine/document Significant Environmental Aspects. The ECR is involved in this review.

Review Guidance

Definitions are taken directly from the "Environmental Aspects and Impacts" Subject Area

Any generation of the below waste streams will be coded with an "a":

Industrial Waste, Hazardous, Radioactive, Mixed, Medical Waste, Transuranic

Work with Engineered Nanomaterials:

a) Any work with engineered nanomaterial. Refer to the interim procedure Approach to Nanomaterial ESH in the Interim Procedures Subject Area.

Engineered Nanomaterials:

a) Any air, liquid, or solid waste discharge of engineered nanomaterials.

Atmospheric Discharge

- a) Any process that requires a point source air permit or inclusion in the Title V permit as an emissions unit, or contributes to a regulated emission point.
- b) Operations or activities that use engineering controls to reduce hazardous air pollutant or radionuclide emissions.
- c) Radioactive emissions that require monitoring (continuous or confirmatory) by 40 CFR 61 Subpart H of the National Emission Standards for Hazardous Air Pollutants (NESHAPS).

Liquid Discharge

- a) Radionuclides that are detectable at the point of discharge from the facility.
- b) Discharges of any of the chemicals listed on the BNL State Pollutant Discharge Elimination System (SPDES) Permit Chemicals exhibit.
- c) Operations or activities that use engineering controls to reduce the quantity or concentration of pollutant.
- d) Existence of underground injection control devices under the responsibility of the owner organization as specified in the Underground Injection Control subject area.

Power Consumption

a) Total Organizational Power Consumption Greater than 58 M KWh/yr.

Chemical Storage/Use or Radioactive Material

- a) Storage or use of chemicals or radioactive materials requiring engineering controls specified in the Storage and Trar Hazardous Materials subject area.
- b) System configuration requires back-flow prevention.
- c) Transportation of chemicals or dispersible radioactive materials.
- d) Storage or use of PCBs as specified in the Oils/PCB Management subject area.
- e) Any underground pipes or ducts that contain chemical and/or radioactive material/contamination.
- f) Storage or use in quantities capable of resulting in a spill, as defined in the Spill Response Subject Area.

Water Consumption

- a) Total organizational water consumption greater than 650,000 gal/day.
- b) Continuous (24/hrs/day), permanent (to continue for the foreseeable future) once-through water use grater than 4 gpm that discharges to the sanitary sewer system.
- Daily (8 hrs/day), permanent, once-through water use greater than 10 gpm that discharges to the sanitary sewer system.
- d) Continuous use greater than 10 gpm, or daily use greater than 15 gpm for a period greater than 60 days that discharge to the Sanitary Sewer System.

Facility-specific Aspects:

Historical/Cultural Resources

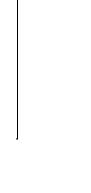
Sensitive/Endangered Species And Sensitivie Habitats

Environmental Noise

Historical Contamination (groundwater/soil)

Soil Activation

Other



nsfer of